	Application No.	Applicant(s)	
Notice of Allowability	10/073,682	BROWN ET AL.	
	Examiner	Art Unit	
	Micah-Paul Young	1618	
	Wilcan-Paul Tourig	1010	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (0 herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOR of the Office or upon petition by the applicant. See 37 CFR 1.313 and 1.314 and 1.314 are considered in the Office of the	OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included nication will be mailed in due course. THIS	
1. This communication is responsive to <u>interview on 9/29/05</u> .			
2. The allowed claim(s) is/are <u>1-22</u> .			
 Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d) o	or (f).	
 Certified copies of the priority documents have t 			
2. Certified copies of the priority documents have to	• •		
Copies of the certified copies of the priority docu	uments have been received	l in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted.	NT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which gives			
5. \boxtimes CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) including changes required by the Notice of Draftsperso	n's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's an Paper No./Mail Date 9/30/05.	Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the header according to 37 CF	e drawings in the front (not the back) of R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FOR 	t of BIOLOGICAL MATE OR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		ormal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		 6. ☑ Interview Summary (PTO-413), Paper No./Mail Date <u>3/2/05</u>. 7. ☑ Examiner's Amendment/Comment 	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date), 7. ⊠ Examiner's <i>i</i>		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	
-	9. 🗌 Other		
		THURMAN K. PAGE SUPERVISORY PATENT EXAMINE TECHNOLOGY CENTERS	

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ernest V. Linek on 9/29/05.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Applicant is required to file formal drawings commensurate with the scope of the instant application. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

The application has been amended as follows:

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1. An ultra-high molecular weight polyethylene film:

having a tensile strength from between about 0.7 GPa and about 5 GPa where said polyethylene has an intrinsic viscosity from between about 5 and about 50 db/g; that is stretched, fibrillated and slit into a micromesh tape suitable for use as an interproximal device having:

a fibrillation density from between about 5% and about 90% of the total tape surface.

a width from between about 0.035 and about 0.12 inches,

a thickness from between about 0.001 and about 0.004 inches, and

a denier from between about 200 and about 600;

wherein said micromesh interproximal device is coated with an oral care substance at from between about 10 and about 120 mg/yd and which, during flossing, releases substantial amounts of said coating while demonstrating ultra shred resistance and an entrapment factor of at least about two;

and where said oral care substance is selected from the group consisting of hedonic agents, cleaners, chemotherapeutic agents, abrasives, and mixtures thereof.

Amend claim 5 as follows:

5. The coated ultra-high molecular weight polyethylene micromesh interproximal device according to Claim 1, wherein said oral care coating substance further comprises a composition [[is]] selected from the group consisting of: high melt viscosity mixtures, high melt viscosity emulsions, medium melt viscosity mixtures, medium melt viscosity emulsions, low melt viscosity mixtures and low melt viscosity emulsions, and combinations thereof.

Amend claim 7:

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7. The coated ultra-high molecular weight polyethylene micromesh interproximal devices according to Claim 5, wherein said medium melt viscosity mixtures and medium melt viscosity emulsions are injection loaded into said micromesh at levels from between about 10 and about 120 mg/yd and said medium melt viscosity mixtures and emulsions comprise coatings selected from the group consisting of:

- (a) saliva soluble, substantially crystal-free coatings containing oral care substances selected from the group consisting of hedonic agents, cleaners, chemotherapeutic agents, abrasives, and mixtures thereof;
- (b) saliva gelling, slowly soluble mixtures containing oral care substances selected from the group consisting of hedonic agents, cleaners, chemotherapeutic agents, Soft AbrasivesTM abrasives and mixtures thereof; and mixtures of (a) and (b).
- 2. The following is an examiner's statement of reasons for allowance: The prior art though disclosing dental floss with a tensile strength within the limits of the claims, the device of Zachariades is a monofilament, and far too expensive to produce. The device of the instant claims is forms a micromesh tape, which is less expensive to produce and in contrast to the orderly nature of the monofilaments, or multi-filaments of the prior art, the micromesh of the instant claims is a randomly, net or web like assortment of material comprising interstitial spaces and openings. The micromesh tapes provide improved bio-film cleansing and delivery of active agent coatings since the micromesh releases its' coating easier than a mono- or multi-filament. For these reasons the claims of the instant invention are novel and non-obvious over the prior art.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Micah-Paul Young whose telephone number is 571-272-0608.

The examiner can normally be reached on M-F 7:00-4:30 every other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K. Page can be reached on 571-272-0602. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Micah-Paul Young

Examiner

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